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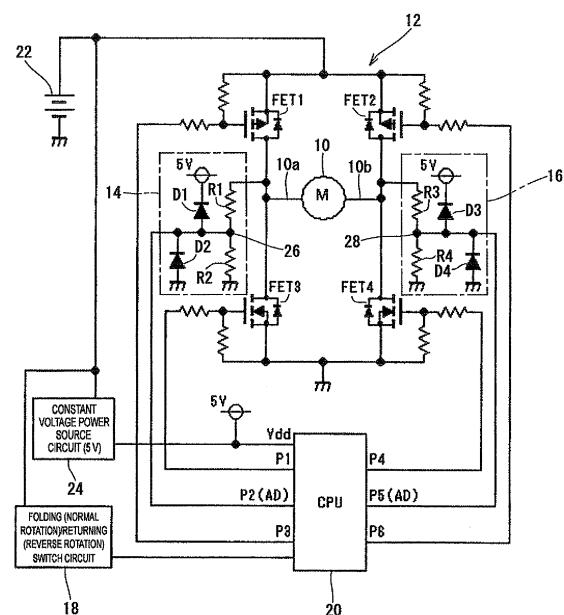
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(54) Lock detection method and lock detection circuit for motor for power-folding mirror

(57) The present invention is intended to, when rotation of a mirror rotation unit in a power-folding mirror is mechanically locked and its drive motor is thereby locked, make it possible to correctly detect this locked state. A motor 10 for a power-folding mirror is reversibly driven by an H-bridge drive circuit 12 formed of FETs 1 to 4. When the motor 10 is driven in normal rotation by turning the FETs 1 and 4 on and turning the FETs 2 and 3 off, the FET 1 is periodically turned off to detect a voltage of a terminal 10a of the motor 10 by means of a voltage detection circuit 14. When the FET 1 is turned off and the motor 10 is not locked, the motor 10 generates power by means of its inertial rotation, and when locked, the motor 10 generates no power, so the voltage detected by the voltage detection circuit 14 changes according to whether or not the motor 10 is locked. A CPU 20 determines whether or not the motor 10 is locked according to the voltage detected by the voltage detection circuit 14.

FIG.1





PARTIAL EUROPEAN SEARCH REPORT

under Rule 62a and/or 63 of the European Patent Convention. This report shall be considered, for the purposes of subsequent proceedings, as the European search report

Application Number

EP 08 15 6897

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	GB 2 292 231 A (MURAKAMI KAIMEIDO KK [JP]) 14 February 1996 (1996-02-14) * the whole document * -----	1,2	INV. B60R1/06 H02P7/00 B60R1/074
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E	EP 2 006 998 A2 (TOKAI RIKA CO LTD [JP]) 24 December 2008 (2008-12-24) * claim 1 * -----	1,2	
A, P	US 2008/088960 A1 (SIM YOUNG SEOK [KR]) 17 April 2008 (2008-04-17) * the whole document * -----	1,2	
			TECHNICAL FIELDS SEARCHED (IPC)
			H02P B60R
INCOMPLETE SEARCH			
The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R.62a, 63) has been carried out.			
Claims searched completely :			
Claims searched incompletely :			
Claims not searched :			
Reason for the limitation of the search:			
see sheet C			
Place of search	Date of completion of the search		Examiner
Berlin	26 August 2010		Tamme, H
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone	T : theory or principle underlying the invention		
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**INCOMPLETE SEARCH
SHEET C**

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Claim(s) completely searchable:
1, 2

Claim(s) not searched:
3, 4

Reason for the limitation of the search:

In response to the clarification request the applicant indicated claims 1 and 2 to be searched.

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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